



Ronald McDonald House Charities®



RONALD MCDONALD
HOUSE CHARITIES

POP TAB PANDEMONIUM TEACHING MATERIALS

Ideas and resources for Teachers

- ☆ Mathematics
- ☆ Geography
- ☆ History
- ☆ Science
- ☆ Puzzles





A resource guide to use in collaboration
with your classroom curriculum.

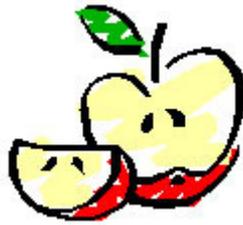


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MATHEMATICS

Measurement:

Project 1

Fill a jar with pop tabs:

- Have the students guess how many pop tabs are in the jar.
- Have the students compare several small containers: box, cylinder, bottle, etc. Which one contains the most pop tabs? Why?

Project 2

Break students into co-op learning group, teams or partners. Give each a number of pop tabs.

- How many pop tabs are in 1 foot? One cup?
- How many pop tabs does it take to cover a piece of paper?
- With a scale, how many pop tabs are in an ounce? A pound?

Some Common Measurement Equivalents:

1 inch = 1 pop tab

1 foot = 12 pop tabs

1 meter = 40 pop tabs

1 pound = 1,552 pop tabs

$2\frac{1}{2}$ centimeters = 1 pop tab

1 kilometer = 40,000 pop tabs

1 mile = 63,360 pop tabs

Word Problems:

- Sally has 3,000 pop tabs. The recycler will give her \$.70 for every 1,500 pop tabs. How much will she get for this delivery?
- A recycler gives \$.70 per pound of pop tabs. How much will Sam receive for 500 pounds?
- If Chris has 300 pop tabs and Tommy has 465, how many pop tabs will they have when their collections are combined?
- Shannon has collected 890 pop tabs in her container. She knows it takes 2,995 tabs to fill the container. How many more tabs will she need to make her container full?





GEOGRAPHY



UNITED STATES MAPS

- Mark a star ☆ on the State of Arkansas
- How many states start with the letter A?
- How many pop tab states are there?

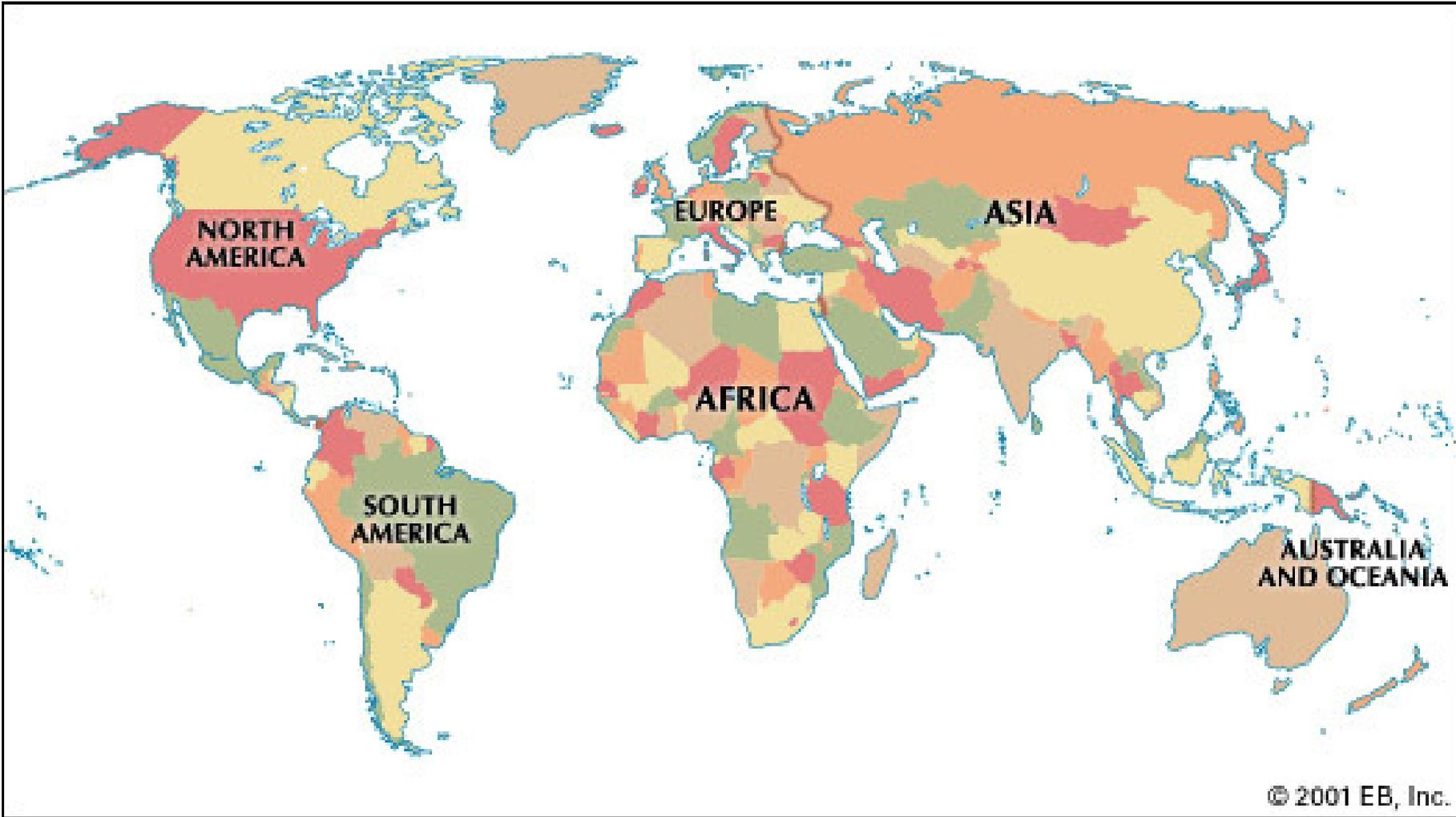


WORLD MAP

- The Switzerland House is located on what continent?
- The Hong Kong House is located on what continent?
- There are Ronald McDonald Houses on every continent except Africa and Antarctica. Draw a pop tab on each continent that does have a Ronald McDonald House.



WORLD MAP





HISTORY



- A. The first Ronald McDonald House was built in 1974. What other events happened during that year?
- B. Who invented the pop tab?
- C. When was the pop tab invented? What other events occurred the year the pop tab was invented?



SCIENCE

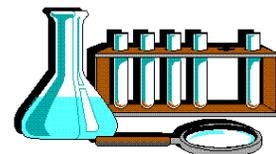


- A. Pop tabs are made from which metal?
- B. Why does the Ronald McDonald House collect only the tabs and not the whole can?
- C. What other things can you recycle?
- D. What is the elemental symbol for aluminum?

Did You Know?

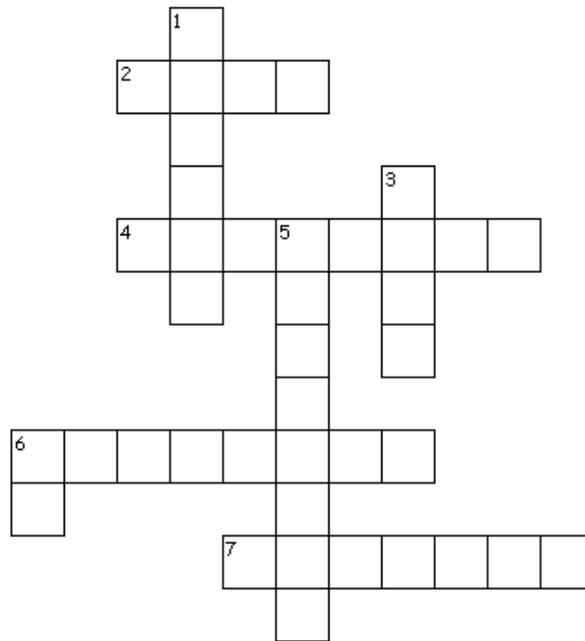
A pop tab withstands up to 110 pounds of tension exerted against it by the carbon dioxide in the soda. But only 3-4 pounds of pull on the tab causes the tab to rupture, releasing the contents inside.

Source: Scientific American. [Http://www.sciam.com1296working.html](http://www.sciam.com1296working.html)





POP TAB CRISS CROSS



ACROSS

2. There are 12 pop tabs in one _____.
4. You are helping _____ by collecting pop tabs.
6. The pop tab is made of a more pure form of _____.
7. The pop tabs are _____ to determine their value.



DOWN

1. What you pull to open an aluminum can of soda, cat/dog food, etc.
3. Moms, dads, and their _____ stay at the Ronald McDonald House.
5. The ring pull can or "pop tab" can was _____ in 1962.
6. What is the elemental symbol for aluminum?





POP TAB DOUBLE PUZZLE



HPLE

13	15	5	

CYREECL

1						12	

LEMAT

7			4	

MAULUINAM

11						3	14	

RAYCIHT

8						

OITONDAN

6	9	10					2	

1	2	3	4	5	6

7	8	6	9	10	11	12	6

			5	
13	9	14		15



Unscramble each of the clue words.

Copy the letters in the numbered cells to other cells with the same number.





POP TAB WORD SEARCH



B	U	V	T	T	S	K	M	C	P	T	T	X	W	W
W	A	S	M	L	E	S	E	W	D	T	G	P	K	Y
Z	U	T	U	Y	U	G	T	D	Z	P	I	H	L	T
P	U	N	P	F	G	Y	A	X	N	D	I	W	N	V
G	J	T	G	O	D	L	L	W	E	I	G	H	S	W
N	M	J	E	I	P	F	S	T	U	G	F	T	T	W
H	B	L	D	T	V	B	J	W	G	S	B	U	S	A
C	H	I	L	D	I	E	V	H	Q	X	L	C	V	R
D	F	E	U	P	X	L	E	Y	K	L	U	M	U	R
C	O	L	L	E	C	T	L	W	U	H	Y	U	H	I
L	R	R	D	X	R	E	J	C	J	S	E	P	K	I
H	J	P	F	O	F	Q	W	R	U	B	C	P	N	R
E	T	D	Y	J	R	Z	R	O	B	F	H	G	S	J
V	T	A	H	R	P	Q	E	D	I	I	T	P	J	C
D	T	G	O	K	B	E	R	V	P	L	P	D	Y	T



CHILD
 COLLECT
 GIVE
 METAL
 POPTAB
 WEIGH



ANSWER SHEET

MATHEMATICS

Project 1

- A. Answers may vary
- B. Answers may vary

Project 2

- A. 1 foot = 12 pop tabs, 1 cup = Approx. 196 pop tabs,
- B. It takes approx. 154 pop tabs to cover a $8\frac{1}{2} \times 11$ sheet of paper.
- C. 1 ounce = approx. 97 pop tabs, 1 pound = 1552 pop tabs.

Word Problems

- 1. \$1.40
- 2. \$350
- 3. 765 pop tabs
- 4. 2,105 more tabs

GEOGRAPHY

UNITED STATES MAP:

- B. 4
- C. 48

WORLD MAP:

- A. Europe
- B. Asia
- C. North America, South America, Europe, Asia and Australia

ANSWER SHEET CONT.

HISTORY

- A. Some examples of events that occurred in 1974:
- President Nixon resigned.
 - Violence breaks out in Boston due to integration in the busing systems
 - Dr. Henry Heimlich introduced the Heimlich maneuver
 - Happy Days premiered its first episode
 - The album of the year Grammy was awarded to Stevie Wonder for "Innervisions"
- B. Ermal Fraise
- C. The ring pull can was invented in 1962. The following are some examples of events that occurred in 1962:
- John Glen was the first American astronaut in space.
 - Marilyn Monroe died on August 5, 1952.
 - Lawrence of Arabia won best picture
 - Telstar successfully transmitted transatlantic television signals for the first time Cuban missile crisis occurred on October 28, 1962.
 - The Beatles appear on The Ed Sullivan Show.

SCIENCE

- A. Aluminum
- B. The Ronald McDonald House collects only the tabs and not the can because of cleanliness and storage space. Also, the aluminum alloy is more pure in the tab than in the can. This enables you to recycle the cans for yourself or another organization.
- C. Answers may vary. Some examples are newspapers, plastic bottles, and glass containers.
- D. AL

ANSWER SHEET CONT.

POP-TAB CRISS CROSS

Across:

- 2. foot
- 4. families
- 6. aluminum
- 7. weighed

Down:

- 1. poptab
- 3. kids
- 5. invented
- 6. AL

Pop Tab Double Puzzle

Words:

- | | |
|---------|----------|
| help | aluminum |
| recycle | charity |
| metal | donation |

Final Message: Ronald McDonald House

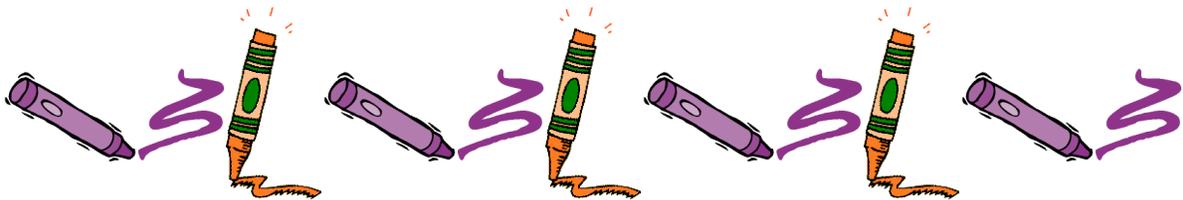
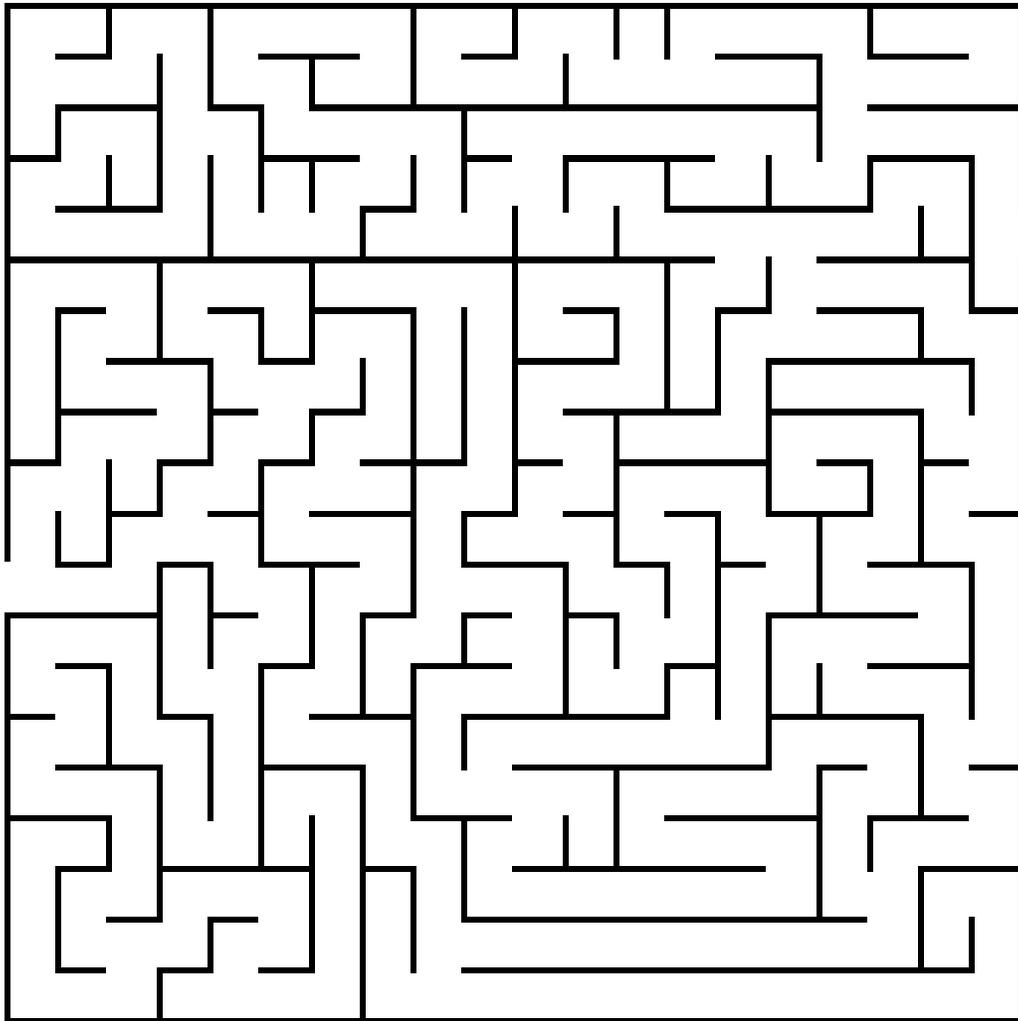
Pop Tab Word Search

Solution:

```
B + + + + + M + + + + +
+ A + + + + + E + + + + +
+ + T + + + + T + + + + +
+ + + P + + + A + + + + +
+ + + G O + + L W E I G H + +
+ + + + I P + + + + + + +
+ + + + + V + + + + + + +
C H I L D + E + + + + + + +
+ + + + + + + + + + + + +
C O L L E C T + + + + + + +
+ + + + + + + + + + + + +
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HELP THE POP TAB FIND ITS
DONATION HOUSE

(Grades 1-4)



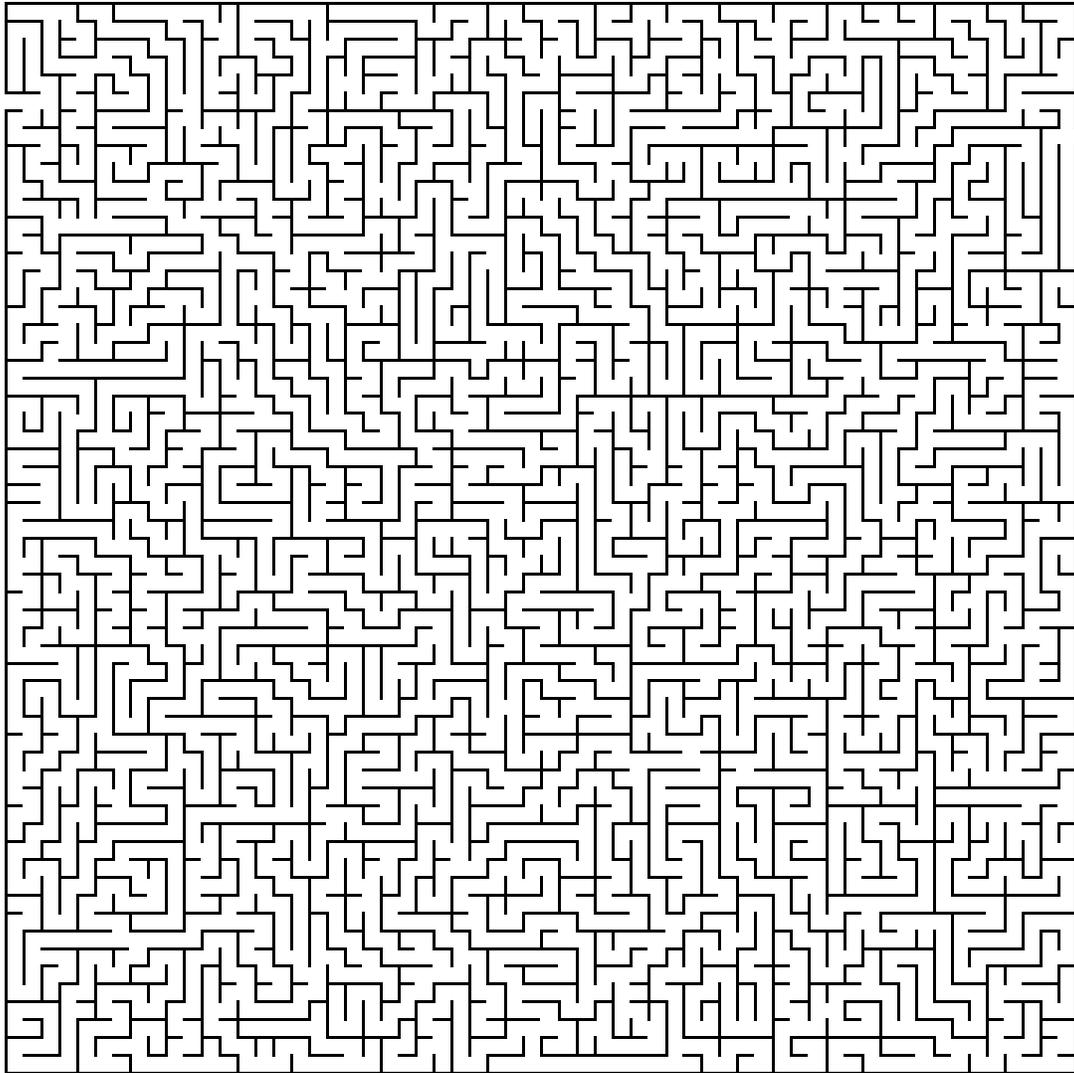
HELP THE POP TAB FIND ITS



DONATION HOUSE



(Grades 5 & 6)





FIND THE POP TAB!

